



Abstract of the Disclosure

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7/17/02 An optical waveguide ^{with} comprising at least a guiding lamina (10) of optical material bonded by direct interfacial bonding to a superstructure lamina (20) of optical material, in which regions of the guiding lamina have modified optical properties so as to define a light guiding path along the guiding lamina. In a particular example, a periodically poled LiNbO_3 planar waveguide is buried in LiTaO_3 by direct interfacial bonding and precision polishing techniques and used in an optical frequency doubling system.

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